Express Mail Label No: EQ 311373284 US Attorney Docket No.: 101361-1P US

#### PATENT COOPERATION TREATY

			DRITY 1/12 N		PCT	
	see form F	РСТ <b>/SA/220</b>	3 C. MAY 2015		TTEN OPINION OF THE DNAL SEARCHING AUTHORITY	
		337A			(PCT Rule 43bis.1)	
				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)	
	cant's or agent's file form PCT/ISA/22			FOR FURTHER See paragraph 2 be		
	national application N		International filing date 01.02.2005	(day/month/year)	Priority date (day/month/year) 05.02.2004	
C07	D495/04, A61K3	1519, A61P3	both national classification 5/00	and IPC		
AST	RAZENECA AB					
1.	This opinion co	ntains indicati	ons relating to the fo	llowing items:		
	Box No. I	Basis of the op	oinion			
	🛛 Box No. II	Priority				
	☐ Box No. III	Non-establish	ment of opinion with req	ard to novelty, inver	ntive step and industrial applicability	
	☐ Box No. IV	Lack of unity of				
	☑ Box No. V	Reasoned state applicability; c	tement under Rule 43 <i>b</i> itations and explanation	is.1(a)(i) with regard as supporting such s	to novelty, inventive step or industrial tatement	
	Box No. VI	Certain docum	rents cited			
	Box No. VII	Certain defect	s in the international ap	plication		
	☐ Box No. VIII	Certain obsen	rations on the internation	nal application		
2.	FURTHER ACTI	ON				
	If a demand for International preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
	If this opinion is.	as provided ab	ly together, where appr	opriate, with amends	ne IPEA, the applicant is invited to ments, before the expiration of three	
	submit to the IPE	date of mailing	of Form PCT/ISA/220 o	oolo the expirate	on of 22 months from the priority date,	
	submit to the IPE months from the	date of mailing es later.		Dolore ine expiration	on of 22 months from the phonty date,	
3.	submit to the IPE months from the whichever expire For further option	date of mailing es later. es, see Form Po		oololo tiio expiratio	on of 22 months from the priority date,	

Name and mailing address of the ISA:

<u>@</u>)

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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

3. Additional observations, if necessary:

International application No. PCT/GB2005/000339

	Box	No. I Basis of the opinion			
1.	With the la	regard to the language, this opinion has been established on the basis of the international application in anguage in which it was filed, unless otherwise indicated under this item.			
	1	This opinion has been established on the basis of a translation from the original language into the following anguage , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).			
2.	With nece	regard to any nucleotide and/or amino acid sequence disclosed in the international application and sarry to the claimed invention, this opinion has been established on the basis of:			
	a. typ	pe of material:			
		a sequence listing			
		table(s) related to the sequence listing			
	b. fo	rmat of material:			
		l in written format			
		I in computer readable form			
	c. time of filing/furnishing:				
		contained in the international application as filed.			
		filed together with the international application in computer readable form.			
	C	furnished subsequently to this Authority for the purposes of search.			
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating there has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.			
4.	Addi	tional comments:			
_	Box	No. II Priority			
1.		The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.			
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.			

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000339

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-9

No: Claims

Inventive step (IS) Yes: Claims 1-9

No: Claims

Industrial applicability (IA) Yes: Claims 1-9

No: Claims

2. Citations and explanations

see separate sheet

#### Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

### ¿AP20 Rec'd PCT/PTO 04 AUG 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000339

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### V-1. State of the art:

The following documents are considered relevant:

- D1: WO 2004/013141 A (ASTRAZENECA AB; ASTRAZENECA UK LIMITED; LUKE, RICHARD, WILLIAM, ARTHUR) 12 February 2004 (2004-02-12)
- D2: US 2004/014756 A1 (MICHAELIDES MICHAEL R [US] ET AL) 22 January 2004 (2004-01-22)
- D3: WO 03/022852 A (GLAXOSMITHKLINE K.K; SMITHKLINE BEECHAM CORPORATION; ADAMS, JERRY, LER) 20 March 2003 (2003-03-20)
- D4: WO 02/062804 A (PHARMACIA ITALIA S.P.A; BERTA, DANIELA; FELDER, EDUARD; VULPETTI, ANNA) 15 August 2002 (2002-08-15)

D1 is a P-document and will be disregarded during the PCT phase.

#### V-2. Novelty (Art. 33(2) PCT):

Claims 1-9 are novel over D2-D4. The compounds disclosed in D2 and D3 lack the imidazole ring. The compounds of D4 are condensed oxazoles rather than thiophenes and have a pyrazole instead of the imidazole ring.

#### V-3. Inventive step (Art. 33(3) PCT):

The present application deals with angiogenesis inhibitors which act in particular on the Tie2 receptor tyrosine kinase.

The problem to be solved in view of D2 (which is representing the closest state of the art) is the provision of further compounds having this activity. Having regard to the major

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/000339

structural differences (see above) this problem has been solved in a non-obvious way. Art. 33(3) PCT is thus also fulfilled.

## Re Item VI Certain documents cited

#### Certain published documents

Application No Patent No Publication date (day/month/year)

Filing date (day/month/year)

Priority date (valid claim) (day/month/year)

WO2004/013141

12.02.2004

01.08.2003

06.08.2002